

Figure 3

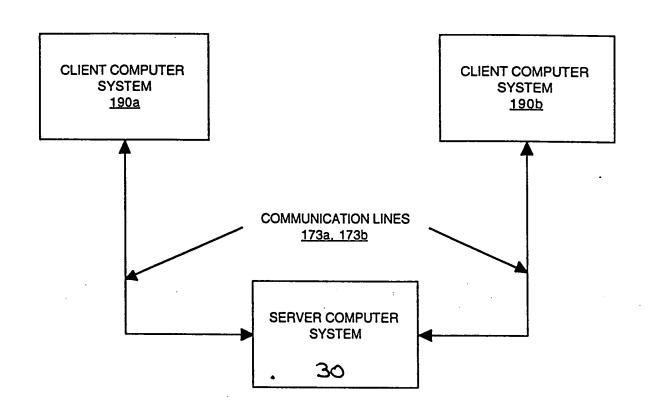


Figure 4

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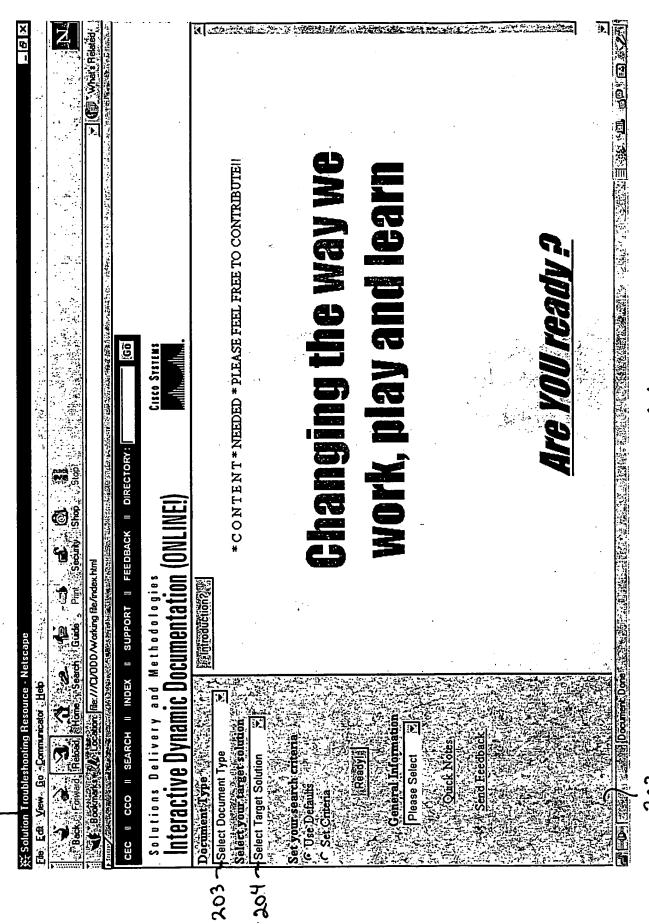


FIGURE 6A

Changing the way we work, diay and learn CISCO STSTEMS CEC || CCO || SEARCH || INDEX || SUPPORT || FEEDBACK || DIRECTORY: Interactive Dynamic Documentation (ONLINE!) marks: ... [Location file: ///CI/000/Working file/index.html Solutions Delivery and Methodologies Finiteduction? 💥 Solution Troubleshooting Resource - Netscape Elect Ed. (Mew) Go. Communicator (Heb) 1 General Information Select your target solution Ouck Note Select Document Type Select Target Solution Document Type Piease Select Select Target Solution Thunder Dial 2.1 Thunder Dial 2.2 hunder Voice 2.

Are YOU ready 9

FIGURE 6B

Are You ready ?

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Commission: Heb  Commis	II INDEX II SUPPORT II FREDBACK II DIRECTORY: TO CISCO SYSTEMS  Y and Mathodologies  SIS Criteria	Please select your current implementation phase (Optional)  C Unit Test C Development Test C Early Field Trial 6 Production	Signal Link Terminal (SLT) Network Access Server Signal Controller  Select Target SLT software release Select Target NAS software release Select Target SLT software release Submit Criteria  Select Target SLT software release Submit Criteria  Submit Criteria	The values set from this page will affect all subsequent displays. The objective here is to minimze the need to look through alarms, log messages, commands etc. that do not apply to the problem at hand. The components displayed below are based upon the solution you selected.  When applicable, recommendations such as "How to proceed" will be provided. These recommendations will be affected by the specified Implementation Phase.	The default implementation phase is Production. This is the most restrictive phase, meaning that the "least destructive" recommendations would be provided. The Development Engineers will have the ability to set the "default" software release for their respective products. This will generally be the latest release available.	Mineral Done : See 1
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Deployed since 1998, the Cisco SC2200 software runs on industry-standard Sun UNIX platforms. Cisco continues to improve allows Service Providers to enter into new markets, optimize their networks for both voice and data traffic, and save drastically reliable solution for connecting VolP and dial access solutions to the PSTN via SS7IC7. Using the SC2200 with SS7 signaling its SC2200 software-call-control engine, bringing manageability, superior scaling, and dramatic savings to end-to-end dial and The Cisco SC2200 combined with the AS5X00 gateways give service providers around the world a proven cost-saving and These proven Cisco SS7/C7 interconnect solutions enabled by the Cisco SC2200 are: SS7 Interconnect for Access Servers Cisco SC2200 Signaling Controller on monthly interconnect fees because SS7 trunks cost a fraction of what PRIs cost. CISCO STSTEMS and SS7 Interconnect for Voice Gateways respectively. CEC || CCO || SEARCH || INDEX || SUPPORT || FEEDBACK || DIRECTORY: Froubleshooting and Analysis Assistant Solutions Delivery and Methodologie: voice solutions. 🌣 Solution Troubleshooting Resource - Netscape Step-By-Step (coming soon) Checking Processes Checking Signaling Checking Bearer Channels Checking Alarms SCVSC Dat Files SCA/SC/Topics Call Traces/Logs

FIGURE 12

1335 1302 71 **@**[8]|X 3 ) Alam advice in the contract of the contrac SUPPORT FAIL This alarm also indicates a physical problem. It might indicate the failure of a supporting entity such as Layer 1 framing. 2) Alarms that indicate a significant signaling event to the second seco LIF FAL. This alarm typically indicates a physical problem, but it may also indicate an error occurring on LF.LOS This alarm typically indicates a physical problem, but it may also indicate an error occurring on camment comment For instance, an LIF LOS would typically also result in SUPPORT FAIL and SC FAIL.

By taking stock of ALL alarms triggered, you should be able to pinpoint the general problem area and Go validation validation Description: Remember that multiple alarms are likely to occur if severe failure scenarios take place. EQPT FAIL This alarm also indicates a physical problem. It might indicate a bad card de de la company de la comp correction correction Description: Below is a list of the more common, but significant alarms you might see. show all . 0 Cisco Systems sort by Validation perhaps the point of failure. I SUPPORT | FEEDBACK | DIRECTORY: Procedure: Alarm Description the remote end. the remote end. Procedure: N/A roubleshooting and Analysis Assistan http://wwwin-tpdev.cisco.com/sdebug/ sort by Question CEC || CCO || SEARCH || INDEX Step-By-Step (coming soon) Solutions Delivery Checking Signaling Checking Bearer Channels · (c. (teamon) V 😤 Solution Troubleshoo SCANCILIONIES PLAN Checking Processes FISHER WAY 160 SCVSC Dat Files Call Traces/Logs 7 13-2 13-1

211 FIGURE 13

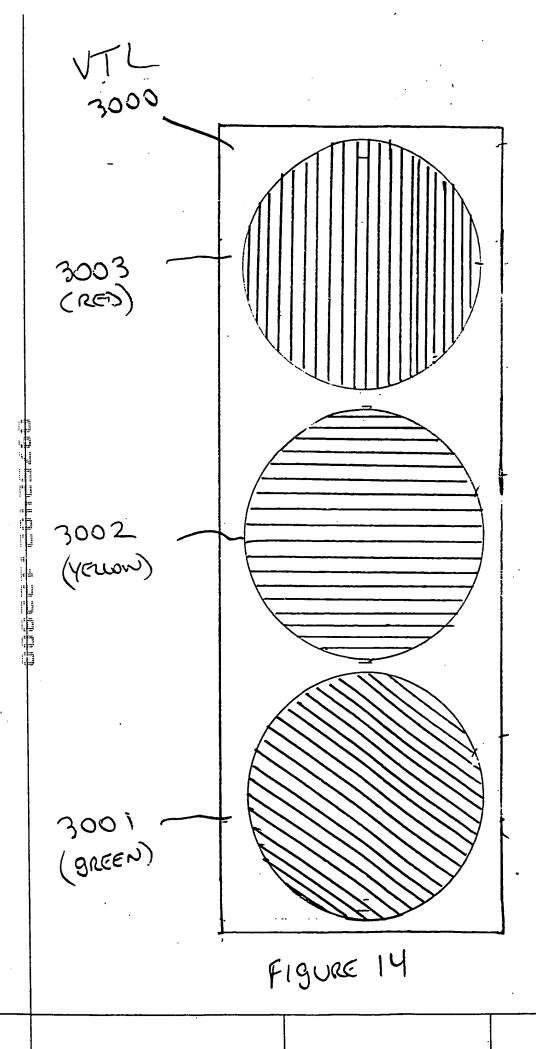
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indicate a mis-configuration of one or more parameters...

CONF FAL. This alarm indicates a serious problem that can result from hand-editing dat files. It can also

SC FAL This alarm typically indicates an abstract signaling problem that requires further diagnosis. FAL This alarm typically indicates an abstract signaling problem that requires further diagnosis.



Are You ready ?

work, play and learn

General Information

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FIGURE 15

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Thunder Dial 2.1 Solution Overview

servers (NASs) to a circuit-switched TDM network using Signaling System #7 (SS7) protocols for signaling. The interconnections Terminal. The Cisco SC2200 comprises the hardware and software package that provides the signaling controller function in the The Cisco SS7 Interconnect for Access Servers Solution is a distributed system used for interconnecting Cisco network access are achieved using a protocol conversion platform called the Cisco Signaling Controller combined with the Cisco Signaling Link Cisco SS7 Interconnect for Access Servers Solution. It provides high availability, high performance, and key scaling.

Cisco offers the Cisco SS7 Interconnect for Access Servers Solution that offloads the signaling to an out-of-band network so that signaling and bearer traffic running over the lines, these legacy switches become congested with modem traffic and limited circuits. When large points of presence (POPs) receive calls from the Public Switched Telephone Network (PSTN), the traffic is running in-band channel-associated signaling (CAS), or single analog lines) rather than out-of-band signaling like SS7 is used. With both over legacy architectures. In-band signaling (such as Integrated Services Digital Network Primary Rate Interfaces (ISDN PRIs) available bandwidth increases.

which includes the Cisco Signaling Link Terminal (Cisco SLT) and the network access server (NAS). The Cisco SS7 Interconnect Interconnect for Access Servers Solution consists of the Cisco signaling controller (also referred to as the Cisco SC2200 product), for Access Servers Solution turns a POP into an end-office switching system in the PSTN, allowing direct peer-to-peer signaling connectivity. The POP, as a switch, connects directly to the rest of the network as a peer. After connections to the Internet are The Cisco SS7 Interconnect for Access Servers Solution is a distributed system that adds SS7 signaling interfaces to large ISP POPs. SS7 interfaces are connected to the PSTN by using the same signaling technology as a PSTN switch. The Cisco SS7 aggregated at a POP, streams of user packets are statistically multiplexed for efficient transport over the backbone network.

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	Known Issues	servers (NASs) to a circut-switched TDM network using Signaling System #1 (SS1) protocols for signaling. The interconnections	
	HowDol/FAQs	The Cisco SC2200 comprises the hardware and software package that provides the signaling controller function in the	
	Sample Configurations	Cisco SS7 Interconnect for Access Servers Solution. It provides high availability, high performance, and key scaling.	
	Please Select		
		When large points of presence (POPs) receive calls from the Public Switched Telephone Network (PSIN), the traffic is running	
	Please Select	over legacy architectures. In-band signaling (such as Integrated Services Digital Network Primary Rate Interfaces (LSDN PRIS)	
		in-band channel-associated signaling (CAS), or single analog lines) rather than out-or-band signaling like SS/ is used. With both	
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	<b>新</b> .	which includes the Cisco Signaling Link Terminal (Cisco SLT) and the network access server (NAS). The Cisco SS7 Interconnect	
		for Access Servers Solution turns a POP into an end-office switching system in the PSTN, allowing direct peer-to-peer signaling	
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file: /cgi-shell/odd/howDol/editContent.pl	vDol/editContent.pl		Поdi	modifed: October 18, 2000

Figure 18

modifed: October 18, 2000 " Only the original contributor (mwnelson) and the administrator may edit this entry once it is submitted. If current entries in /opt/TransPath/snmp/snmpd.cnf. Changing the entries in 2) On the MASTER stop transpath (we don't want frepld overwriting stuff To change SNMP manager in SC2200 2.0 without using TCT, change 3) On the SLAVE: use "config-lib retrieve" to get the new config. You (a more detailed version of the question - optional) delete the old SNMP manager and add a new one with the new IP you are submitting content on behalf of someone else place their user id in this field. Submit Reset 铁 How Do I: New Content - Netscape Cancel file: /egi-shell/odd/howDol/editContent.pl build and deploy the config Contributor: mwnelson Changin we've just changed). If using TCT: 1) On TCT Question: address. Description: Answer:

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SO CONTRACTORY: CHEEN STATES	sort by Validation show all	To change SNMP manager in SC2200 2.0 without using TCT, change current entries in Appl TransPath/snmp/snmpd cnf. Changing the entries in snmpmgr. dat does nothing. SI flusing: TCT.  John TCT.  delete the old SNMP manager and add a new one with the new IP address.  build and deploy the config.  John the MSTER stop transpath (we don't want frepid overwriting stuff we've've just changer; thanged that both snmpmgr dat and snmpd. Cnf contain the new.  John the SLAVE: use "config-lib retrieve" to get the new config. You should see text indicating that the SNMP manager is being restarted.  John the SLAVE: stop transpath  John the SLAVE: start transpath, processes have stopped before moving to the next step.  John the Master: stop transpath, processes have stopped before moving to the next step.  John the Master: stop transpath, as started on the New MASTER.  John the Master: stop transpath (we don't want frepid overwriting stuff we've just changed).  John the SLAVE: stop transpath (we don't want frepid overwriting stuff we've just changed).  John the SLAVE: stop transpath (we don't want frepid overwriting stuff we've just changed).
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modified: October 18, 2000 \* Only the original contributor (mwnelson) and the administrator may edit this entry once it is submitted. If Þ. current entries in /opt/TransPath/snmp/snmpd.cnf. Changing the entries in →|2) On the SLAVE : stop transpath (we don't want frepld overwriting stuff To change SNMP manager in SC2200 2.0 without using TCT, change 3) On the SLAVE: use "config-lib retrieve" to get the new config. You (a more detailed version of the question - optional) delete the old SNMP manager and add a new one with the new IP Submit you are submitting content on behalf of someone else place their user id in this field. Changing the SNMP manager with and without TCT current validation level: [ 0 ] Reset Delete file: /ogi-shell/odd/howDol/editContent.pl 英How Do I: Correction - Netscape - build and deploy the config Cancel weve just changed). contributor: xuchen If using TCT: Question: 1) On TCT address. Description: -Answer: 37 7

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类 howDol/submitItemEdit.pl - Netscape

Submitting Correction for

[Test entry to show confirmation window] ...

# Test entry to show confirmation window successfully deleted

FIGURE 21A

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### 兴 How Do I: Comments - Netscape

# Disable sync on two VSC's in order to make changes on one box.

### **Description:**

Disable sync on two VSC's (active and backup configurations) in order to make changes on one box. The objective is to allow you to roll back to the working configuration in the event the new configuration has problems and minimize impact to production. This might be used for example, with customers when timers are changed, trunks are added, or additional destinations are added.

### Answer:

1. Make sure FOVERD (the fail over daemon) is running on the standby VSC using the UNIX command:

ps-ef |grep trans

- 2. Ensure the current configurations are synced up with each other.
- 3. Stop the engine on the Active system and ensure the standby VSC has assumed control.
- 4. Change "\*.desiredPlatformState" in XECfgparm.dat on both VSC to "standalone"
- 5. Change "\*. SyscheckpointEnabled" in XECfgparm.dat on active VSC to "false"
- 8. Make the desired change on the active VSC and then switch back to the active VSC, using step 1 and 3 in reverse.
- 7. If the configurations are correct everything should work as desired.
- 8. Change "x. SyscheckpointEnabled" in XECfgparm.dat on the active VSC to "true"

Current Validation Level: 0

### Comments:

new comment goes here	<u></u>
	<u></u>
comment id: [auto-generated]	contributed by movnelson

Cancel Reset Submit

file: /cgi-shell/odd/howDol/editContent.pl

modifed: October 18, 2000

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- 8. Change "x. SyscheckpointEnabled" in XECfgparm.dat on the active VSC to "true"

### Comments:

Can someone please validate this procedure? I have seen other recommendations in the past that differ with this one and I would like to know this information is correct.

submitted 11/09/2000 at 14:50

comment id: 33

I have used this procedure and have validated it. The light should now be green!!

submitted 11/09/2000 at 14:52

comment id: 34

Cancel

modifed: September 25, 2000

FIGURE 24

W W ľŲ H .4 ľŲ  🎘 How Do I: Validation - Netscape

Configuring for dual IP addresses **Description:** Answer: Configure the 2nd Ethernet card in the SUN: a. su to root b. do command "ifconfig hme1 plumb" c. If you need to add another default gateway (in addition to "default router") then go to /etc/rc2.d and at the end of the S69inet file append: "route add (metric=1 if on same subnet) d. cd to the /etc directory e. Create a file called 'hostname.hme1', and in this file put a new hostname for the system (e.g E-452.cisco.com). You must create a separate hostname for the second Ethernet card it cannot use the same hostname as the other one. f. Edit the 'hosts' file adding the new hostname and the IP address you want to allocate to the second Ethernet card. g. Edit the 'netmasks' file adding a new line with the new network number of the subnet followed by a space then the netmask to apply to that network. h. Type "init 0" , This goes to "ok" prompt, anyway at the "ok" prompt type: "setenv local-mao address? true" and reboot by typing 'boot' or 'boot-r' This should reconfigure the kernel and activate the second Ethernet interface. You should then be able to set it activated by querying it with 'ifconfig -a' (you should see hme1 now with the 2nd IP and Ethernet MAC address. If using a Netra that has a clock speed of 450Mhz (greater than 419Mhz) ľU To find out the speed of the Netra, at the OK> prompt type banner this will tell you the speed at which the Netra is being clocked at. If the speed is greater than 419Mhz a pre-installer MUST be used, that patches the kernel allowing the processor to function at its .4 correct speed. (The Netra will not work without this pre-installer!). ľU 10 10 10 2502 Current Validation Level: 0 howdoi id: 25 contributed by movinelson 2503 Negative Validation 2501 Cancel Positive Validation what do negative and positive validation mean? file: /cgi-shell/odd/howDol/editContent.pl modifed: October 18, 2000

Figure 25

